CD RECEIVER

KDC-116S/1018

SERVICE MANUAL

KENWOOD

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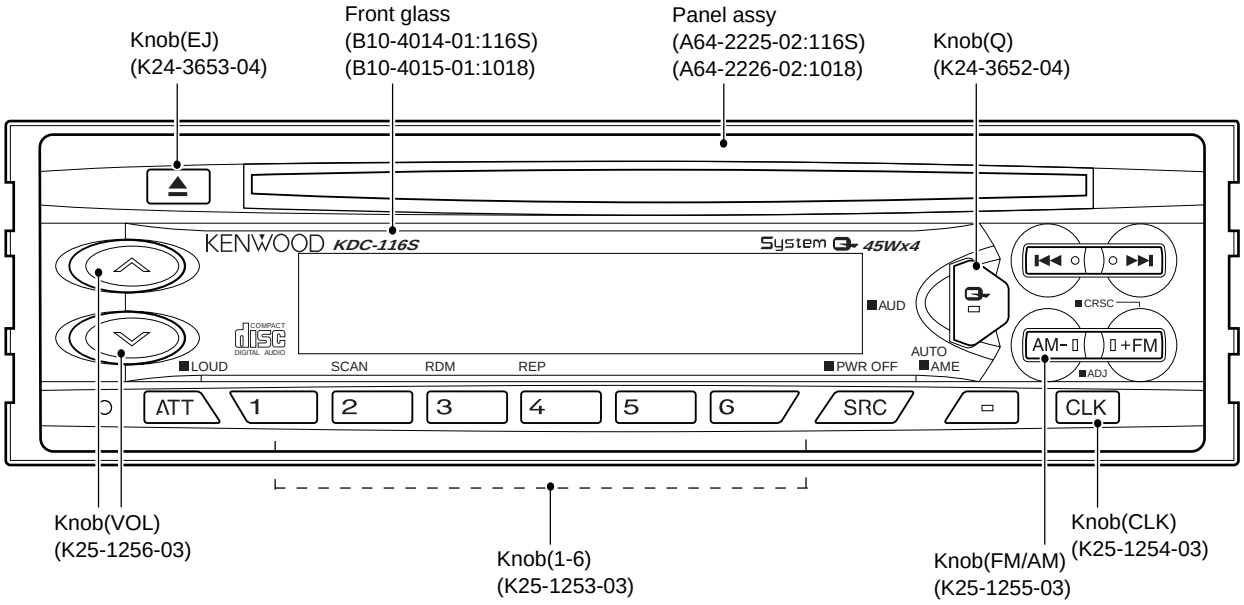
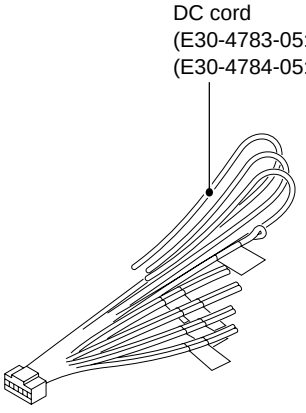
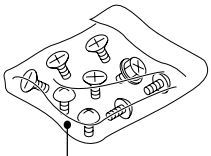
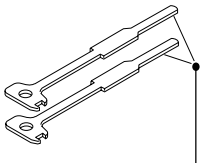
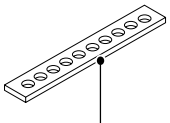
● **KDC-116S**











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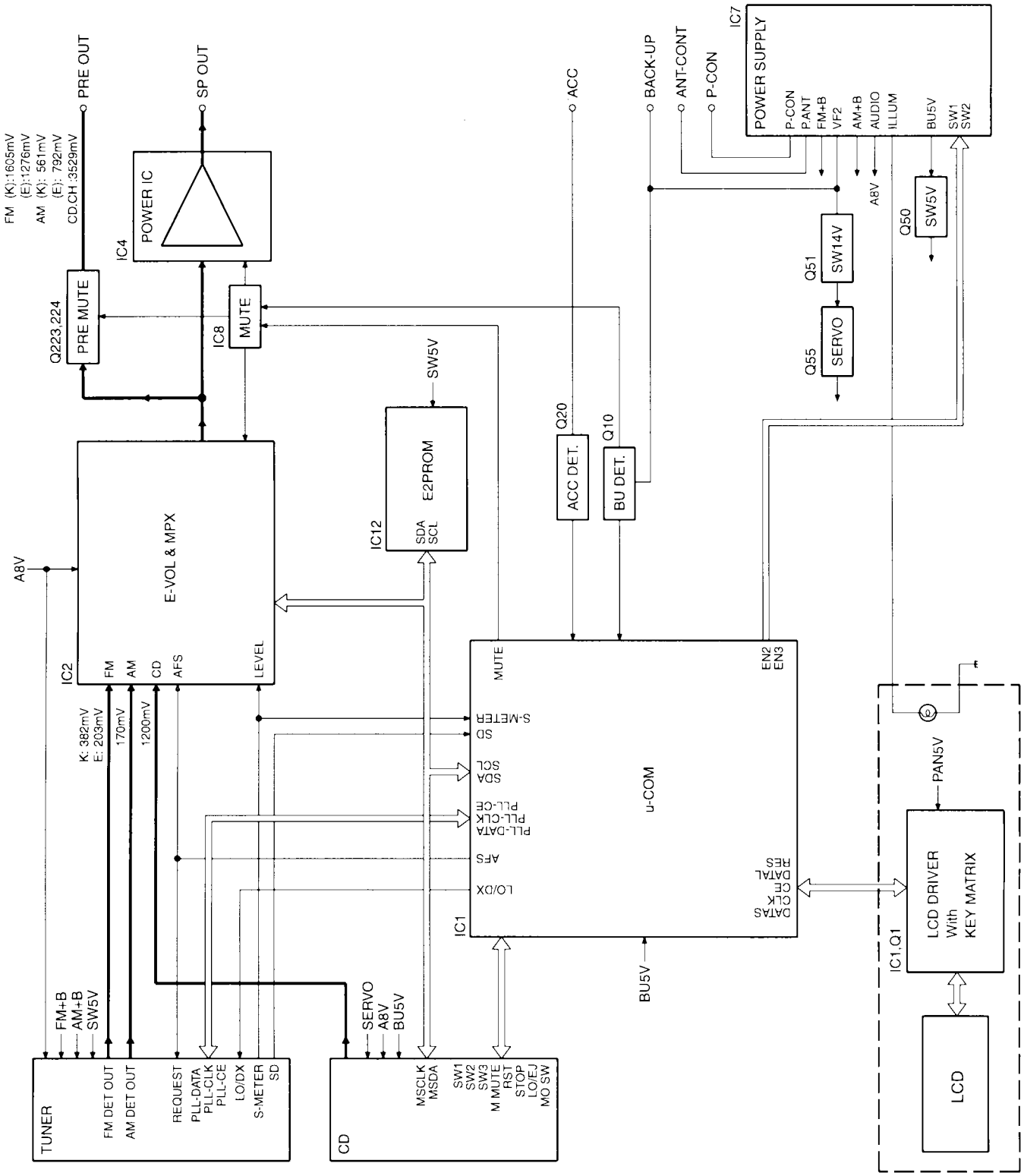
KDC-116S/1018

BLOCK DIAGRAM



COMPONENT DESCRIPTION

●SWITCH UNIT(X13-9880-14)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	LC75853NE	LCD driver	Ready on key-matrix
Q1	DTA114EK or KRA102S or UN2111	key-matrix permission SW	Ready on key-matrix, ON when the base goes "Lo"

●ELECTRIC UNIT(X25-8700-XX)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	UPD780058GC233	System μ-COM.	
IC2	TDA7407D	E-VOL. & N.C. MPX	
IC4	TDA7386	Power IC	
IC7	BA4911-V4	Power supply IC	
IC8	HD74HC27FP	Mute gate IC	3 input NOR gate x3
IC11	S-80830ANNP	RESET IC	Detection voltage 3.0V
IC12	BR24C01AF or BR24C01AF-W M24C01-WMN6T or S-24C01B	E2PROM	
Q10	2SC4081 or 2SD1819A	B.U. detection	Detect BU voltage
Q20	2SC4081 or 2SD1819A	ACC detection	Detect ACC voltage
Q40	DTA124EUA or UN5112	PREOUT mute driver	Mutes when base is "Lo" (controls Q221-224)
Q50	2SA1036K	SW 5V	ON when the base is "Lo".
Q51	UMC2N	SW 14V	ON when the base is "Hi" (controls Q55)
Q53	UMC2N	Switch for power supply IC	ON when the base is "Hi" (controls SW1 pin of power supply IC)
Q55	2SD2375 or 2SD2396	AVR for SERBO +B	Output issued when SW14V is on (base is "Hi")
Q70	2SC4081 or 2SD1819A	SURGE detection	Detect SURGE voltage
Q223,224	DTC143TUA or UN5216	PREOUT MUTE	Mute applied to PREOUT (output) when base is "Lo"
Q251	DTC114YUA or UN5214	Power IC SVR SW	Turns ON when base is "Hi" and capacitor on SVR pin discharges

MICROCOMPUTER'S TERMINAL DESCRIPTION

●Terminal Description

Pin	Function	I/O	Description	Processing Operation
1	AV CONT	O	A/D converter reference voltage control output	”Hi”: ON / ”Lo”: OFF
2	IC2 TYPE0	I	IC2 setting terminal	”Lo”: Initial value
3	IC2 TYPE1	I	IC2 setting terminal	”Lo”: Initial value
4	AVSS	-	Ground connection terminal	connected to GND
5	M MUTEL	I	Muting request from the MICOM. of CD mecha.	”Lo”: Mute request
6	N.C	O	Not used	
7	AVREF1	I	D/A converter reference voltage input	
8	ILLUMI	O	Illumination AVR ON/OFF control output	”Hi”: AVR ON
9	L RES	O	Reset output to the LCD driver IC	”Lo”: Reset
10	PANEL	I	Panel open/close detection input	”Lo”: Panel closed
11	L DATAL	I	Data input from the LCD driver IC	
12	L DATAS	O	Data output to the LCD driver IC	
13	L CLK	O	Clock output to the LCD driver IC	
14	N.C	O	Not used	
15	N.C	O	Not used	
16	CH-DATAC	I	Data input from changers	
17	CH-DATAH	O	Data output to changers	
18	CH-CLK	I/O	Clock input/output with changers	
19	L CE	O	CE output to the LCD driver IC	”Hi”: Active
20	N.C	O	Not used	
21	M RST	O	Reset output to the MICOM. of CD mecha.	”Lo”: Reset
22	M STOP	O	Stop request to the MICOM. of CD mecha.	”Lo”: Stop
23	MOSW	O	CD mechanism loading motor control output	”Hi”: Loading & Eject / ”Lo”: other
24	PLL SCL	O	Clock output to the tuner pack	
25	AM+B	O	AM+B control	”Hi”: during AM reception
26	FM+B	O	FM+B control	”Hi”: during FM reception
27	M-SCL	I/O	Clock input/output with the MICOM. of CD mecha.	
28	DSI	O	DSI output	”Hi”: LED ON
29	LO/EJ	I/O	CD mecha.Loading/Eject switching output	”Lo”: Loading / ”Hi”: Eject
30	SW3	I	Down & limit switch detection input	”Hi”: Chucking / ”Lo”: Pickup most inner position
31	R DATA	I	Data input from RDS decoder	
32	R QUAL	I	Quality input from RDS decoder	
33	VSS1	-	Ground connection terminal	connected to GND
34	SD	I	SD input from the tuner pack	”Hi”: Station detected
35	IC2 SCL	O	Clock output to the E-VOL. IC	
36	M-SDA	I/O	Data input/output with the MICOM. of CD mecha.	
37	PLL SDA	I/O	Data input/output with the tuner pack	
38	IC2 SDA	I/O	Data input/output with the E-VOL. IC	
39	MUTE	O	Mute control output	”Hi”: Mute ON / ”Lo”: Mute OFF
40	N.C	O	Not used	
41	AFC	O	AFC control output	”Lo”: during FM seek
42	CH-REQH	O	Request output to changers	”Lo”: Request
43	CH-CON	O	Changer control	”Lo”: Standby / ”Hi”: ON
44	N.C	O	Not used	
45	P MUTE	O	Power IC mute control	”Lo”: Mute
46	SVR	O	Power IC reset terminal	When the momentary power down, after ACC OFF/ON is detected and after POWER ON/ OFF, the output goes ”Hi” temporarily.
47	STBY	O	Power IC standby control output	”Hi”: POWER ON mode
48	P CON	O	Power control	”Hi”: POWER ON mode except ALL OFF mode
49	P ANT	O	Antenna control	”Hi”: during FM/AM reception
50	BEEP	O	BEEP sound output	
51	ACC DET	I	ACC detection input	”Hi”: ACC OFF / ”Lo”: ACC ON
52	BU DET	I	Momentary power down detection input	”Hi”: When momentary power down detected or BU OFF / ”Lo”: BU ON
53	N.C	O	Not used	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin	Function	I/O	Description	Processing Operation
54	N.C	O	Not used	
55	N.C	O	Not used	
56	SW5	O	SW 5V control	”Lo”: POWER ON mode
57	P ON	O	Microprocessor peripheral power supply control terminal	”Hi”: ACC ON or during CD Loading/Eject
58	TYPE2	I	Destination type input terminal 2	
59	N.C	O	Not used	
60	RESET	I	Reset input terminal	”Lo”: System reset
61	REMO	I	Data input from the remote control light sensor	
62	R CLK	I	Clock input from RDS decoder	
63	CH-REQC	I	Request input from changers	”Hi”: Request
64	SW1	I	Loading detection	”Lo”: CD chucking
65	KEY-REQ	I	Key request terminal	”Lo”: Request
66	SW2	I	12cm disc detection terminal	”Lo”: 12cm disc
67	VSS0	-	Ground connection terminal	connected to GND
68	VDD1	-	VDD connection terminal	
69	X2	-	Main clock resonator connection terminal	
70	X1	I	Main clock resonator connection terminal	
71	IC(TEST)	-	Not used	connected to GND
72	XT2	-	Sub clock resonator connection terminal	N.C.
73	N.C	I	Sub clock resonator connection terminal	connected to BU5V lines
74	VDD0	-	VDD connection terminal	
75	AVREF0	I	A/D converter reference voltage input	
76	SMETER	I	S-meter input from the tuner pack	
77	PHONE	I	PHONE detection input	1V or less: TEL MUTE,2.5V or greater: NAVI MUTE
78	NOISE	I	Noise detection input	
79	TYPE0	I	Destination type input terminal 0	
80	TYPE1	I	Destination type input terminal 1	

KDC-116S/1018

ADJUSTMENT

Test Mode

1. How to enter test mode

While holding the FM key and preset 6 key, reset the unit.
All display segments light up when the test mode is entered.

2. How to exit from test mode

Reset the unit.
The test mode is not terminated by turning ACC off, power off, momentary power down or panel detaching.

3. Test mode specifications of CD receiver

- Pressing the Track Up key jumps to tracks in the following sequence:
  No.9→No.15→No.10→No.11→No.12→No.13→No.14→No.9 (Repeats the cycle)
- Pressing the Track Down key jumps to the track immediately before the track being played.
- Pressing Preset 1 key jumps to track No. 28.
- Forced ejection is not provided.

4. Test mode specifications of cassette receiver

- Blank skip (B.S) is off.
- Pressing the ATT key ejects the cassette.

5. Audio functions

- Pressing the AUDIO key or the OPEN/CLOSE key on the remote controller initiates the Audio mode.
- In the Audio adjustment mode, the Seek Up/Down keys on the remote controller can only be pressed shortly. (They cannot be held depressed.)
- The volume is –10 dB (which is displayed as “30”).
- LOUDNESS is OFF.
- The Bass/Treble Up/Down and Balance/Fader Up/Down buttons function as full-boost/full-cut and full-front/full-rear respectively.

6. Menu mode

- Pressing the CLK or the DNPP key on the remote controller initiates the Menu mode.
- In the Menu mode, the Seek Up/Down keys on the remote controller can only be pressed shortly . (They cannot be held depressed.)
- With the models incorporating RDS, the first operation in the menu becomes local seek.

7. Version and operating hours display

- The following table shows the key operations and resulting display information.

Key Operation	Display
Pressing Preset 1	Version (Date and time display)
Pressing Preset 3	CD (or TAPE with C/R models) operating hours
Pressing Preset 5	CD (or TAPE with C/R models) ejection count

- Holding Preset 3 while the operating hour information is displayed clears it.
- Holding Preset 5 while the ejection count information is displayed clears it.

Adjustment Mode

Adjustable items

1: Stereo Decoder Subaddress: 9
2: Configuration Subaddress: D

Default values

If they are not written in the EEPROM, the default values specified by the IC developer are set in IC2-3.

Adjustment procedure

1: Enter the IC2-3 Adjustment mode by resetting the unit while holding 3 + 6.
2: Select the TUNER source by pressing SRC.
3: When the adjustment mode is entered, the display shows a 2-digit hex number.
4: When preset 1 or 2 is recalled, the setting values corresponding to the pressed number are displayed. (The displayed values are those in the RAM.)
5: Vary each setting value using ⏮ or ⏭
6: Store the values in the corresponding preset number.
7: The settings can be performed individually for each item. (It is not required to store all the values together.)
8: After storing the values, reset the unit to exit from the adjustment mode. The values set in the EEPROM will be read during the resetting.
9: When the band is switched, there may be cases in which the preset number being displayed does not coincide with the stored setting value. To check this , be sure to recall the preset number after you switch the band.

Notes

1: The items which are not stored will be set to the default values.
2: Once a value is stored in memory, the value will always be used later.
(It is not allowed to modify the setting values by switching the destination type.)

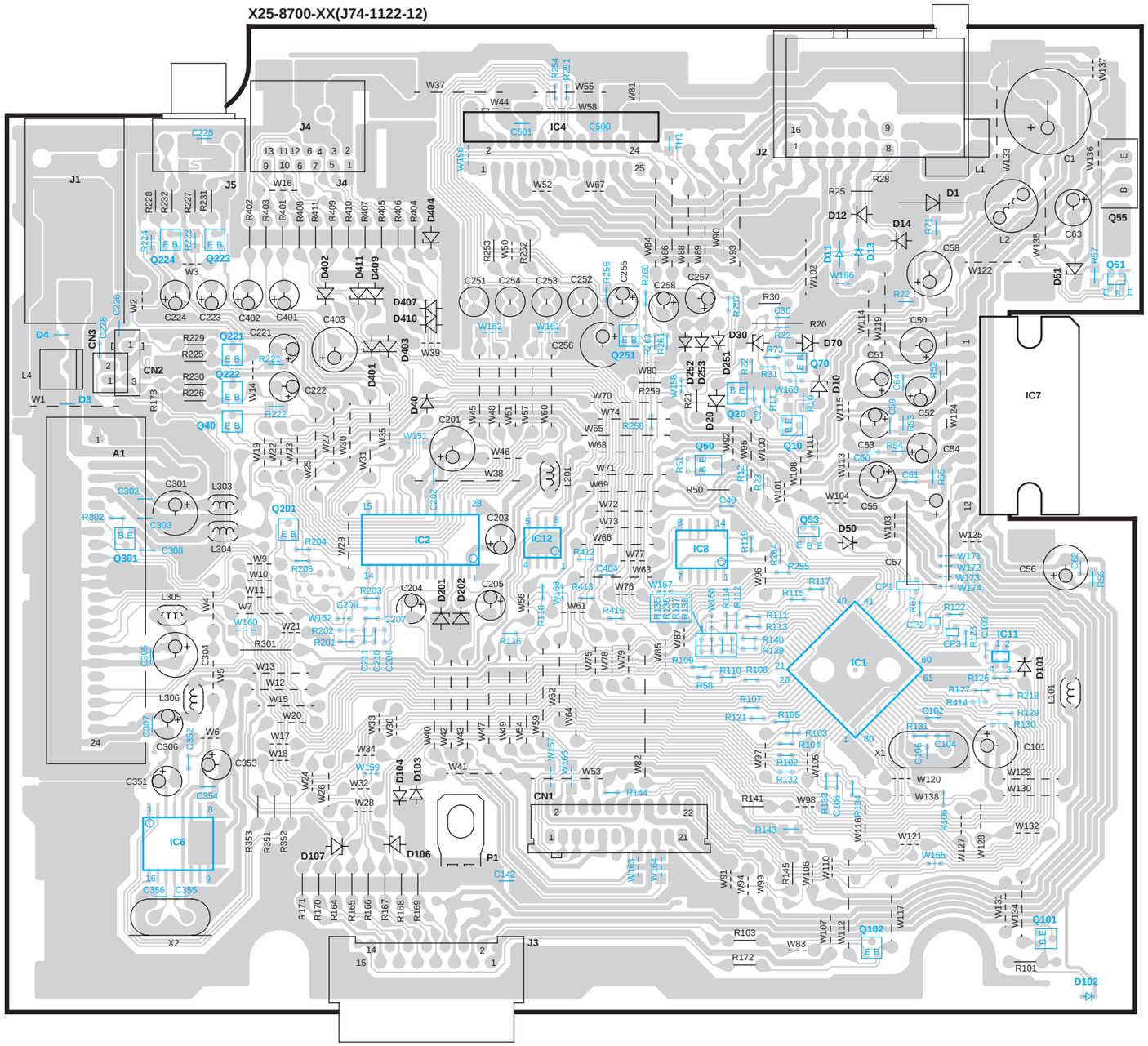
PC BOARD (Component Side View)

ELECTRIC UNIT

ELECTRIC UNIT
(X25-8700-XX)

Ref. NO.		Address
IC	Q	
1		5F
2		4C
4		2D
6		5B
7		3F
8		4E
11		5F
12		4D
	10	3E
	20	3E
	40	3C
	50	4E
	51	3G
	53	4E
	55	2G
	70	3E
	101	6F
	102	6F
	201	4C
	221	3C
	222	3C
	223	2B
	224	2B
	251	3D
	301	4B

X25-8700-XX(J74-1122-12)



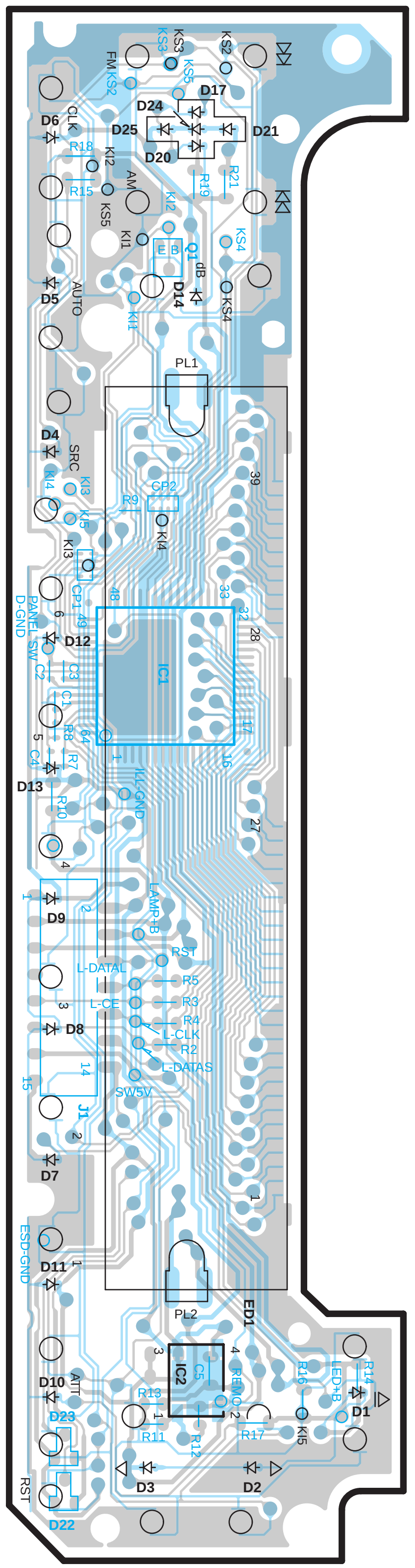
PC BOARD (Foil Side View)

SWITCH UNIT

SWITCH UNIT
(X13-9880-14)

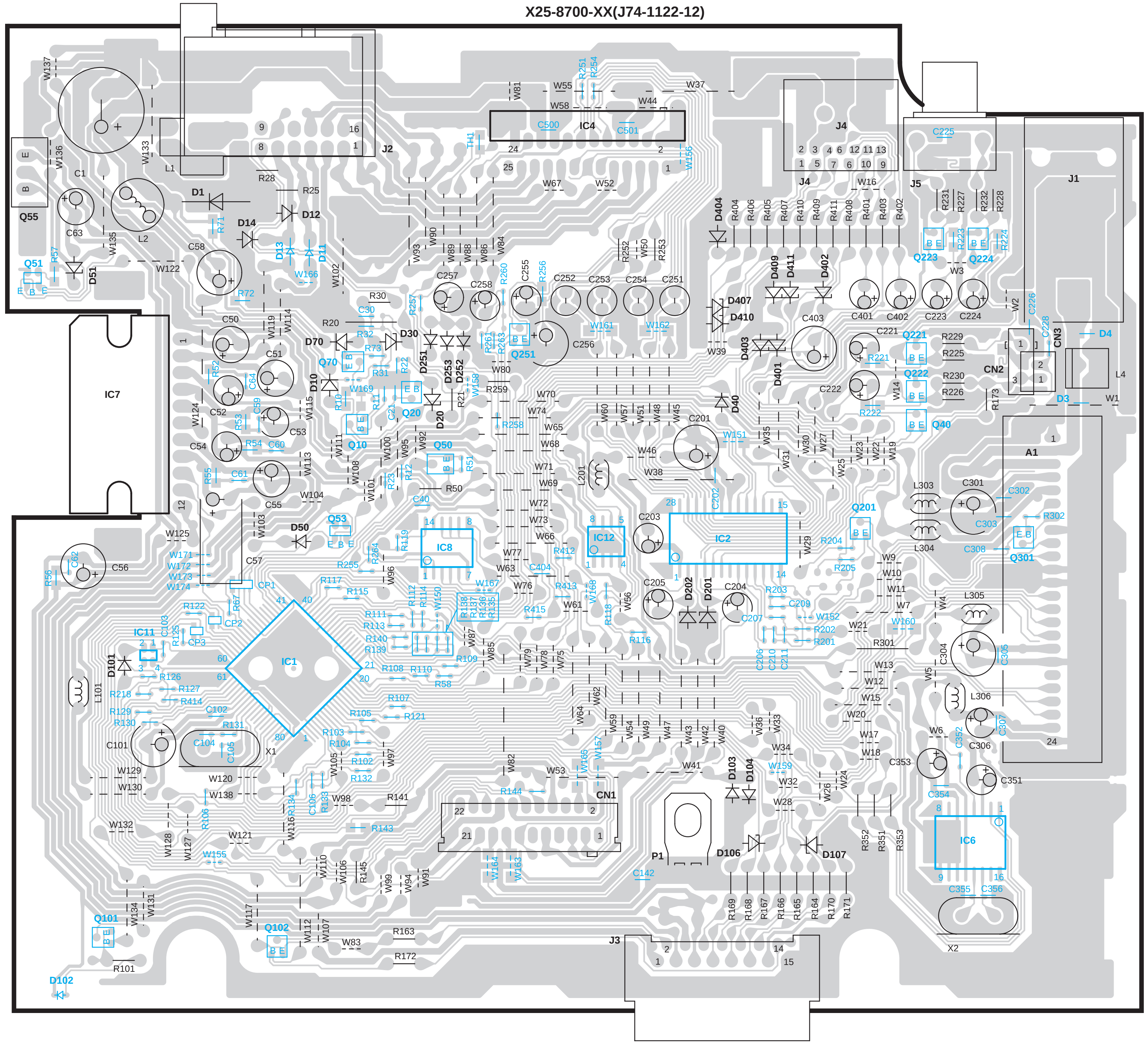
Ref. NO. IC	Ref. NO. Q	Address
1		4K
2		6K
	301	2K

X13-9880-14(J74-1115-12)



ELECTRIC UNIT

X25-8700-XX(J74-1122-12)



ELECTRIC UNIT
(X25-8700-XX)

Ref. NO. IC	Ref. NO. Q	Address
1		5M
2		4P
4		2O
6		5Q
7		3M
8		4N
11		5M
12		4O
	10	3N
	20	3N
	40	3P
	50	4N
	51	3L
	53	4N
	55	2L
	70	3N
	101	6M
	102	6M
	201	4P
	221	3P
	222	3P
	223	2Q
	224	2Q
	251	3O
	301	4Q

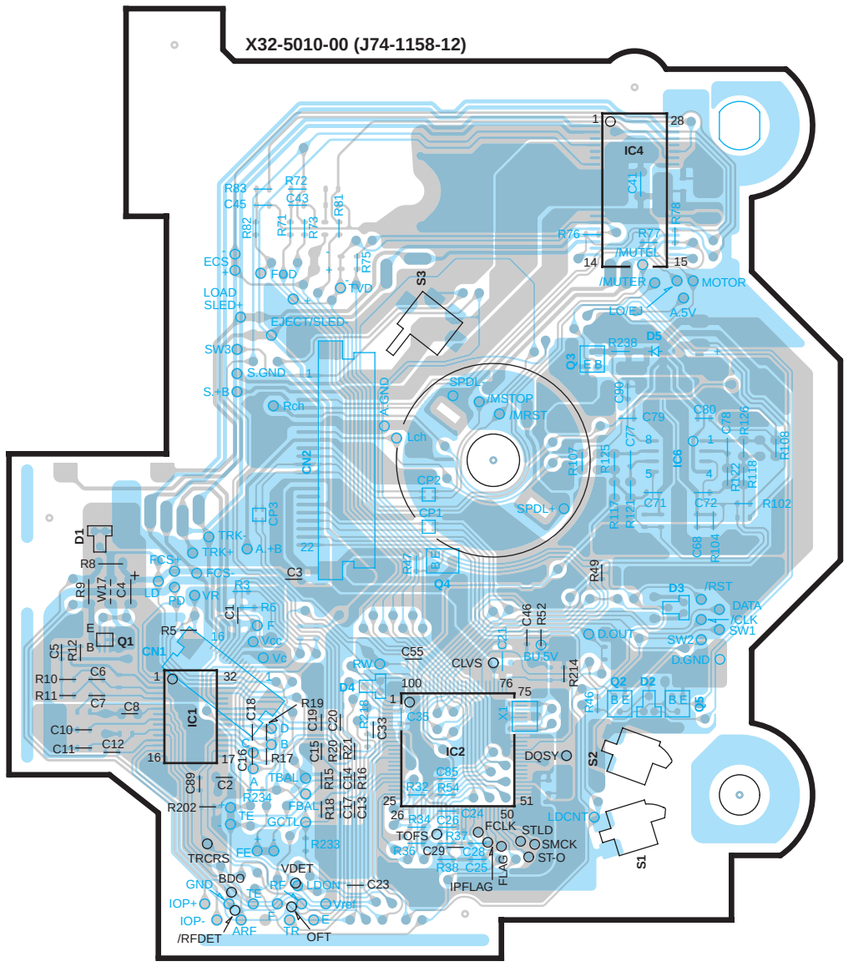
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component Side View)

CD PLAYER UNIT

CD PLAYER UNIT
(X32-5010-00)

Ref. NO.		Address
IC	Q	
1		4T
2		4U
4		2V
6		3V
	1	4T
	2	4V
	3	3V
	4	4U
	5	4V

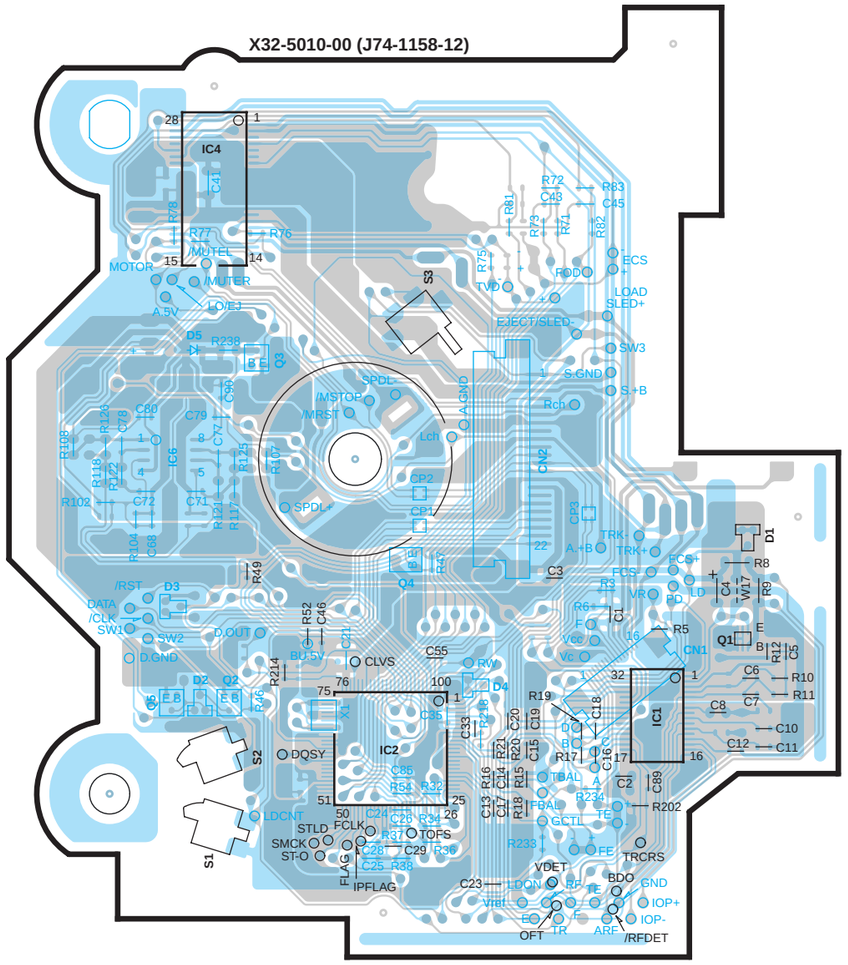


PC BOARD (Foil Side View)

CD PLAYER UNIT

CD PLAYER UNIT
(X32-5010-00)

Ref. NO.		Address
IC	Q	
1		4Z
2		4Y
4		2X
6		3X
	1	4Z
	2	4X
	3	3X
	4	4Y
	5	4X



Refer to the schematic diagram for the values of resistors and capacitors.

(X25-8700-XX)

MODEL NAME	UNIT No.	C51	D3, 11,12	R25, 137	R138
KDC-116S	0-10	NO	NO	NO	YES
KDC-1018	0-21	YES	YES	YES	NO

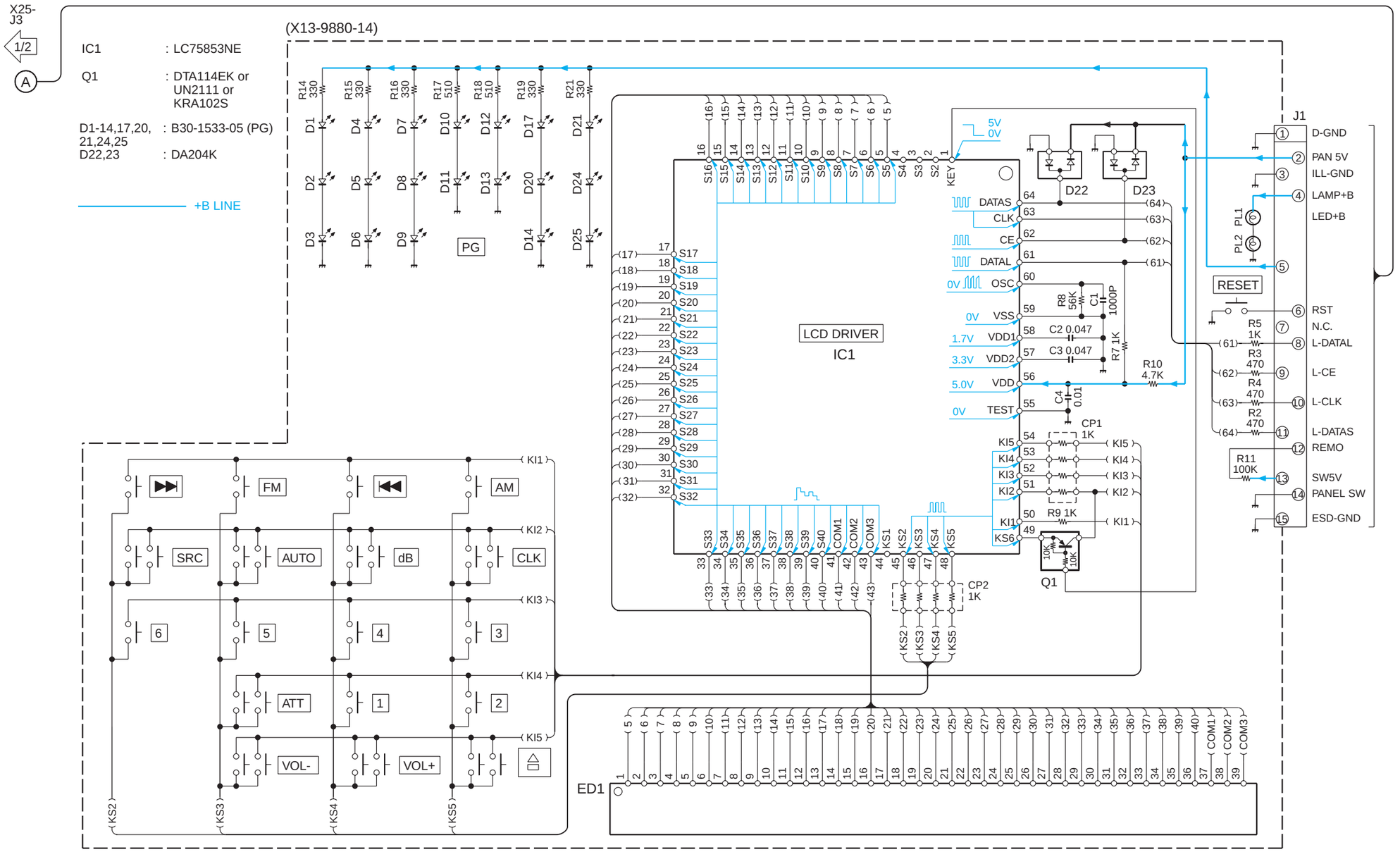
IC1	: UPD780058GC233
IC2	: TDA7407D
IC4	: TDA7386
IC7	: BA4911-V4
IC8	: HD74HC27FP
IC11	: S-80830ANNP
IC12	: BR24CO1AF
D1	: S2V20∗A
D2,3,40,50,101,103,104,251-253	: 1SS133
D4	: SA-C2012-101TB or IMSA-6801
D10,20,70,201,202,401	: MA4068(N)-M
D11-14,261-263,265,266	: AM01Z or DSM1SD2 or ERA15-02
D51	: MA4082(N)-L or HZS9A1L
D106,107	: MA4062-L or HZS6C1
D264,267,268	: D1F60
Q10,20,70	: 2SC4081 or 2SD1819A
Q40	: DTA124EUA or UN5112
Q50	: 2SA1036K
Q51,53	: UMC2N
Q55	: 2SD2375 or 2SD2396
Q223,224	: DTC143TUA or UN5216
Q251	: DTC114YUA or UN5214

SIGNAL LINE
+B LINE

DC CORD (E30-4783) KDC-116S

DC CORD (E30-4784) KDC-1018

1/2



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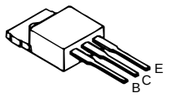

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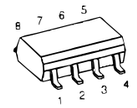
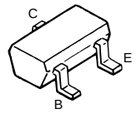


DTA114EK
DTC114YUA
DTC143TUA
UN5214
UN5216
2SA1036K
2SA1362
2SD1819A

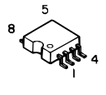
DAN202U

DA204U

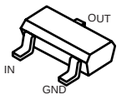
2SC4081



BR24C01AF
BR24C01AF-W

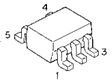


DTA124EUA
DTC124EUA
KRA102S



BA5917AFP

UMC2N



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to, parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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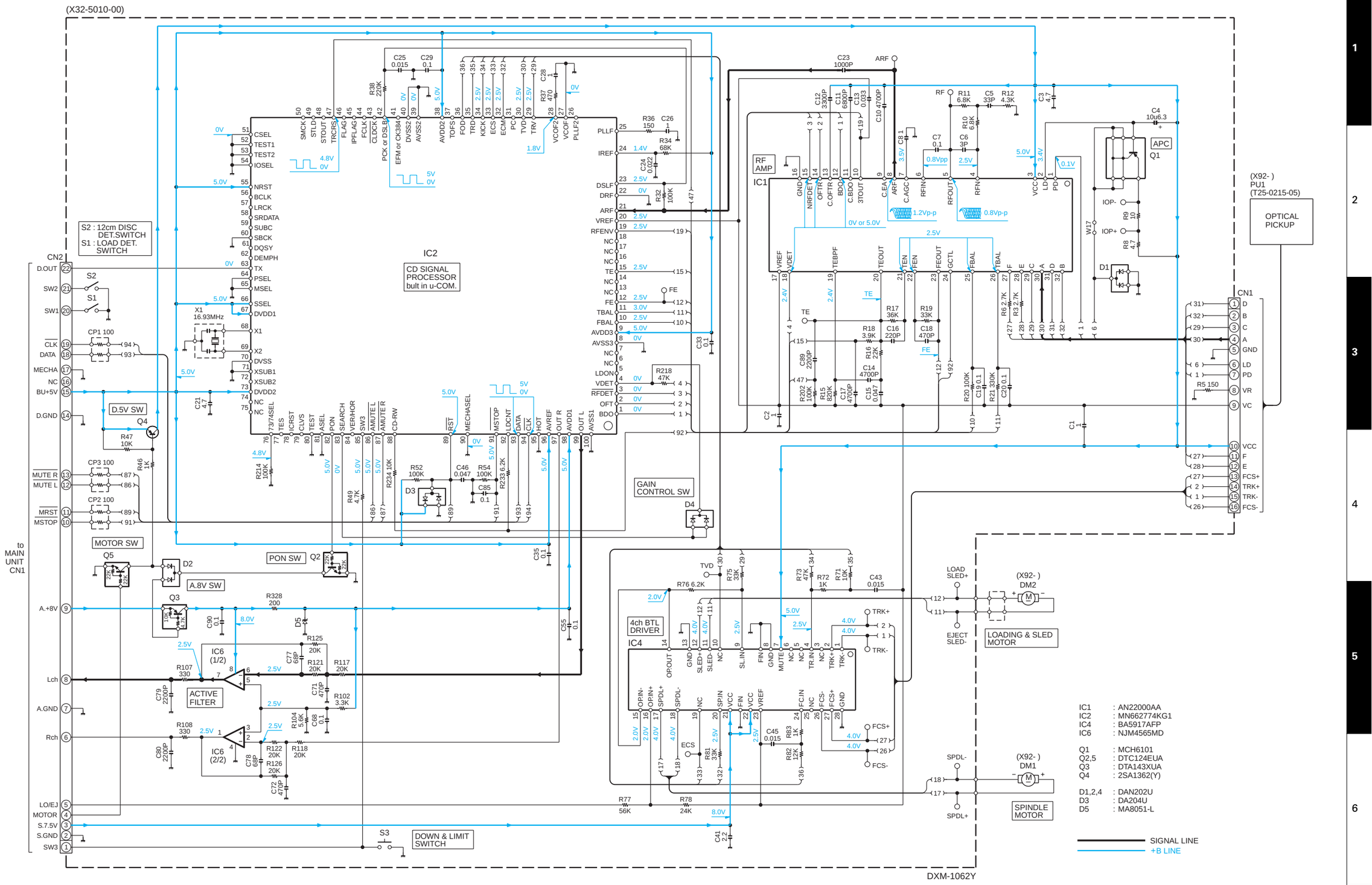

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CD MECHANISM

KDC-116S/1018

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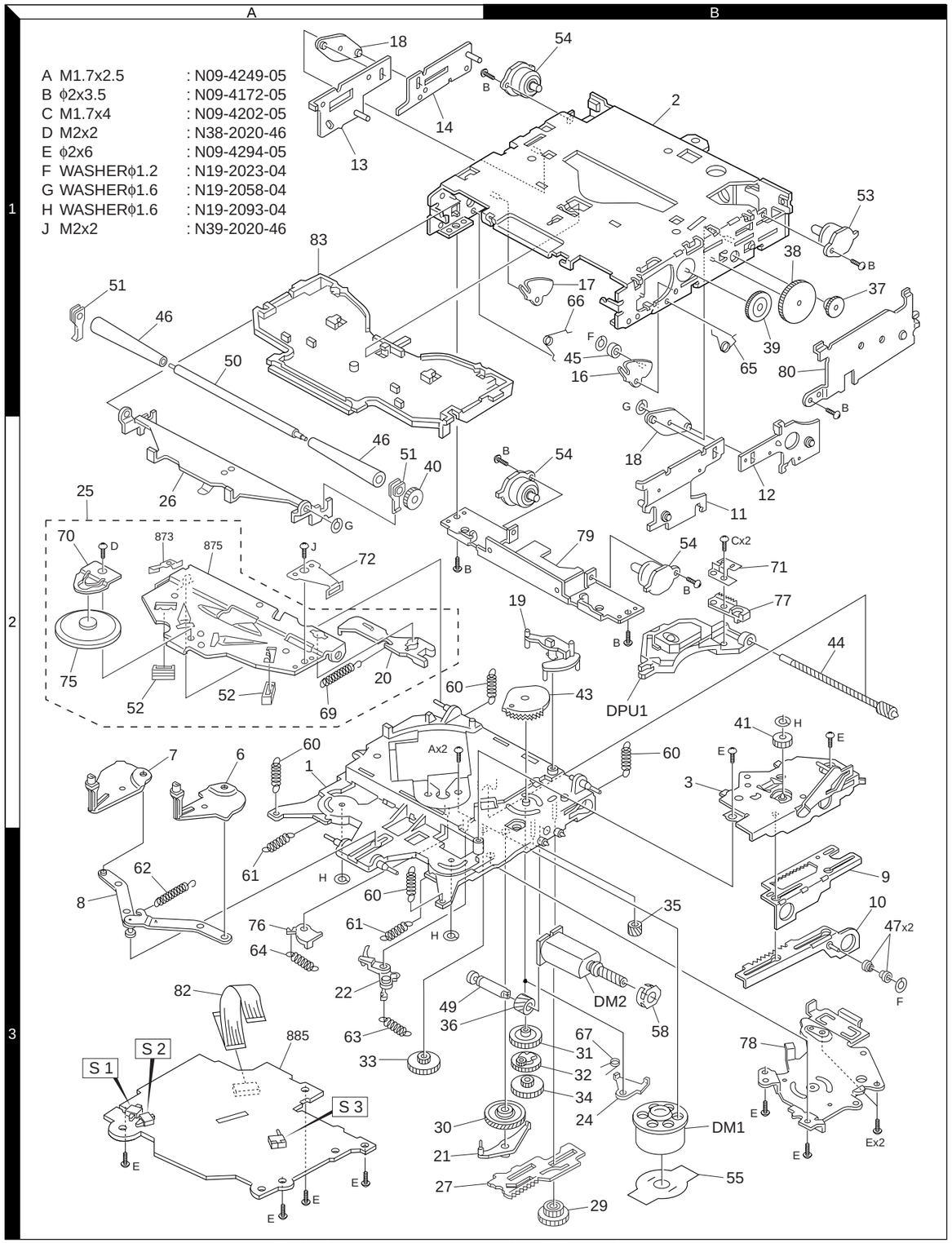
EXPLODED VIEW (CD MECHANISM)

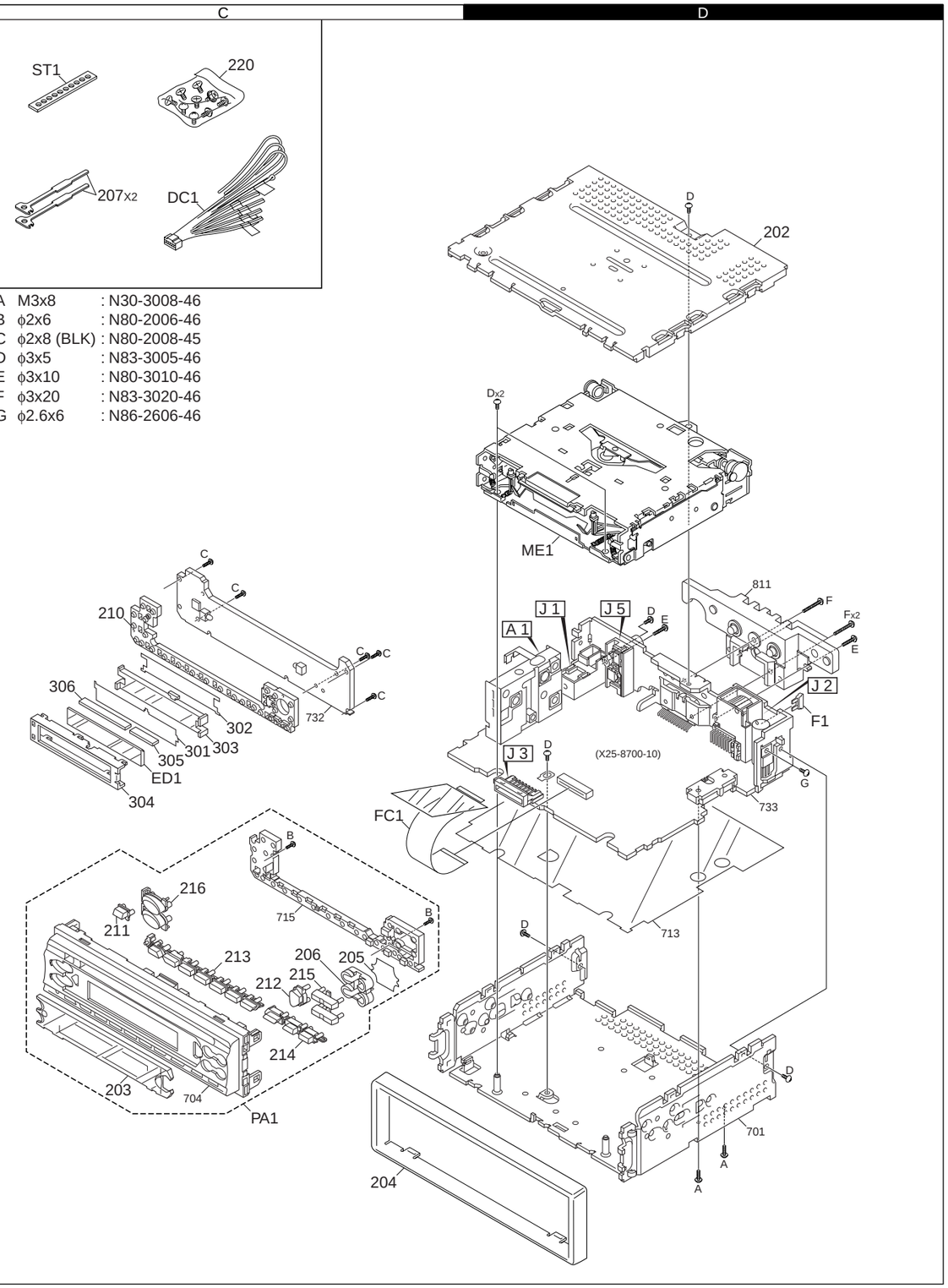
A	M1.7x2.5	: N09-4249-05
B	ϕ2x3.5	: N09-4172-05
C	M1.7x4	: N09-4202-05
D	M2x2	: N38-2020-46
E	ϕ2x6	: N09-4294-05
F	WASHERϕ1.2	: N19-2023-04
G	WASHERϕ1.6	: N19-2058-04
H	WASHERϕ1.6	: N19-2093-04
J	M2x2	: N39-2020-46



Parts with exploded numbers larger than 700 are not suppied.

EXPLODED VIEW (UNIT)

A	M3x8	: N30-3008-46
B	ϕ2x6	: N80-2006-46
C	ϕ2x8 (BLK)	: N80-2008-45
D	ϕ3x5	: N83-3005-46
E	ϕ3x10	: N80-3010-46
F	ϕ3x20	: N83-3020-46
G	ϕ2.6x6	: N86-2606-46



Parts with exploded numbers larger than 700 are not suppied.

PARTS LIST

∗ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohane Parts No. werden nicht geliefert.

KDC-116S/1018
SWITCH UNIT(X13-9880-14)
ELECTRIC UNIT(X25-8700-XX)

Ref.No.	Add	New	Parts No.	Description	Destination
KDC-116S/1018					
202	1D		A52-0783-02	TOP PLATE	
PA1	3C	∗	A64-2225-02	PANEL ASSY	K
PA1	3C	∗	A64-2226-02	PANEL ASSY	M1
203	3C	∗	B10-4014-01	FRONT GLASS	K
203	3C	∗	B10-4015-01	FRONT GLASS	M1
204	1C		B07-3001-02	ESCUTCHEON	
205	3C		B11-1345-04	OPTICAL DIFFUSER	
206	3C		B19-2076-03	LIGHTING BOARD	
-			B46-0100-50	WARRANTY CARD	
-			B58-1344-04	CAUTION CARD	K
-		∗	B64-1830-00	INSTRUCTION MANUAL	K
-		∗	B64-1831-00	INSTRUCTION MANUAL E,T	M1
-		∗	B64-1832-00	INSTRUCTION MANAL A	M1
207	1C		D10-4589-04	LEVER	
210	2C		E29-1830-02	CONDUCTIVE RUBBER	
⚠ DC1	1C		E30-4783-05	DC CORD	K
⚠ DC1	1C		E30-4784-05	DC CORD	M1
FC1	2C		E39-0343-05	FLAT CABLE	
⚠ F1	2D		F52-0006-05	FUSE(MINI BLADE TYPE)	
⚠ F1	2D		F52-0011-05	FUSE(MINI BLADE TYPE)	
-			H10-4740-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		∗	H54-1915-03	ITEM CARTON CASE	K
-		∗	H54-1916-03	ITEM CARTON CASE	M1
ST1	1C		J54-0606-04	STAY	
211	3C		K24-3653-04	KNOB EJ	
212	3C		K24-3652-04	KNOB Q	
213	3C		K25-1253-03	KNOB 1-6	
214	3C		K25-1254-03	KNOB CLK	
215	3C		K25-1255-03	KNOB FM/AM	
216	3C		K25-1256-03	KNOB VOL	
220	1C		N99-1632-05	SCREW SET	
A	3D		N30-3008-46	PAN HEAD MACHINE SCREW	
B	3C		N80-2006-46	PAN HEAD TAPTITE SCREW	
C	3C		N80-2008-45	PAN HEAD TAPTITE SCREW	
D	1D		N83-3005-46	PAN HEAD TAPTITE SCREW	
ME1	2C		X92-4130-00	MECHANISM ASSY	
SWITCH UNIT (X13-9880-14)					
301	3C		B11-1327-04	OPTICAL DIFFUSER	
302	3C		B11-1328-04	REFLECTION SHEET	
303	3C		B19-2065-03	LIGHTING BOARD	
D1-14			B30-1533-05	LED(1608,PG)	
D17			B30-1533-05	LED(1608,PG)	
D20,21			B30-1533-05	LED(1608,PG)	
D24,25			B30-1533-05	LED(1608,PG)	
ED1			B38-1060-05	LIQUID CRYSTAL	
PL1,2			B30-1485-05	LAMP (5.5V 0.125A)	
PL1,2			B30-1543-05	LAMP (GRN,5.5V,0.12)	

Ref.No.	Add	New	Parts No.	Description	Destination
C1			CK73GB1H102K	CHIP C 1000PF K	
C2,3			CK73GB1E473K	CHIP C 0.047UF K	
C2,3			CK73GB1H473K	CHIP C 0.047UF K	
C4			CK73GB1H103K	CHIP C 0.010UF K	
304	3C		E29-1829-04	CONDUCTIVE RUBBER	
305	3C		E29-1834-04	CONDUCTIVE RUBBER	
J1			E59-0828-05	RECTANGULAR PLUG	
CP1,2			R90-0724-05	MULTI-COMP 1K X4	
R2-4			RK73FB2A471J	CHIP R 470 J 1/10W	
R5			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R7			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R8			RK73GB1J563J	CHIP R 56K J 1/16W	
R9			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R10			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R14-16			RK73EB2B331J	CHIP R 330 J 1/8W	
R17,18			RK73EB2B511J	CHIP R 510 J 1/8W	
R19			RK73EB2B331J	CHIP R 330 J 1/8W	
R21			RK73EB2B331J	CHIP R 330 J 1/8W	
IC1			LC75853NE	MOS-IC	
Q1			DTA114EK	DIGITAL TRANSISTOR	
Q1			KRA102S	DIGITAL TRANSISTOR	
Q1			UN2111	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X25-8700-XX)					
C1			C90-2853-05	ELECTRO 4700UF 16WV	
C21			CK73GB1H103K	CHIP C 0.010UF K	
C40			CK73GB1H103K	CHIP C 0.010UF K	
C50			CE04CW1E100M	ELECTRO 10UF 25WV	K
C50,51			CE04CW1E100M	ELECTRO 10UF 25WV	M1
C52-54			C90-2597-05	ELECTRO 10UF 16WV	
C55			CE04CW1E100M	ELECTRO 10UF 25WV	
C56			CE04CW1H100M	ELECTRO 10UF 50WV	
C57			C90-2926-05	ELECTRO 220UF 16WV	
C63			CE04CW1C220M	ELECTRO 22UF 16WV	
C101			CE04CW0J101M	ELECTRO 100UF 6.3WV	
C102			CK73GB1H103K	CHIP C 0.010UF K	
C103			CK73GB1C104K	CHIP C 0.10UF K	
C103			CK73GB1H104K	CHIP C 0.10UF K	
C104,105			CC73GCH1H150J	CHIP C 15PF J	
C106			CK73GB1H472K	CHIP C 4700PF K	
C142			CK73GB1C104K	CHIP C 0.10UF K	
C142			CK73GB1H104K	CHIP C 0.10UF K	
C201			CE04CW1A470M	ELECTRO 47UF 10WV	
C202			CK73GB1H103K	CHIP C 0.010UF K	
C203-205			C90-2610-05	ELECTRO 2.2UF 50WV	
C206			CK73GB1H153K	CHIP C 0.015UF K	
C207			CK73GB1A474K	CHIP C 0.47UF K	
C208,209			CK73GB1C104K	CHIP C 0.10UF K	
C208,209			CK73GB1H104K	CHIP C 0.10UF K	
C210			CK73GB1E333K	CHIP C 0.033UF K	
C210			CK73GB1H333K	CHIP C 0.033UF K	
C211			CC73GCH1H151J	CHIP C 150PF J	
C223,224			C90-2597-05	ELECTRO 10UF 16WV	
C225			CK73GB1H103K	CHIP C 0.010UF K	

K: KDC-116S **M1:** KDC-1018

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PARTS LIST

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ELECTRIC UNIT(X25-8700-XX)

Ref.No.	Add	New	Parts No.	Description	Destination
C251-254			C90-5296-05	NP-ELECT 0.22UF 50WV	
C255			C90-2608-05	ELECTRO 1.0UF 50WV	
C256			CE04CW1A101M	ELECTRO 100UF 10WV	
C257			C90-2608-05	ELECTRO 1.0UF 50WV	
C258			C90-2935-05	ELECTRO 1.0UF 50WV	
C301			CE04CW1A101M	ELECTRO 100UF 10WV	
C302,303			CK73GB1H103K	CHIP C 0.010UF K	
C304			CE04CW1A101M	ELECTRO 100UF 10WV	
C305			CK73GB1H103K	CHIP C 0.010UF K	
C306			C90-2594-05	ELECTRO 10UF 10WV	
C307			CK73GB1H103K	CHIP C 0.010UF K	
CN1			E40-9550-05	FLAT CABLE CONNECTOR	
J1			E04-0312-05	RF COAXIAL CABLE RECEPTACLE	
⚠ J2			E58-0863-15	RECTANGULAR RECEPTACLE	
J3			E58-0880-05	RECTANGULAR RECEPTACLE	
J5			E63-0852-05	PIN JACK	
P1			E23-0745-05	TERMINAL	
L1			L33-1170-05	CHOKE COIL ASSY	
L4			L33-1123-05	LINE FILTER COIL	
L101			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L201			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L303-306			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
X1			L77-1167-05	CRYSTAL RESONATOR(4.19M)	
D	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
E	2D		N80-3010-46	PAN HEAD TAPTITE SCREW	
F	2D		N83-3020-46	PAN HEAD TAPTITE SCREW	
G	2D		N86-2606-46	BINDING HEAD TAPTITE SCREW	
CP1			R90-1056-05	MULTIPLE RESISTOR	
CP2			R90-1047-05	MULTIPLE RESISTOR	
CP3			R90-1046-05	MULTIPLE RESISTOR	
R10			RK73FB2A303J	CHIP R 30K J 1/10W	
R11			RK73GB1J103J	CHIP R 10K J 1/16W	
R12			RK73GB1J104J	CHIP R 100K J 1/16W	
R20			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R22			RK73GB1J103J	CHIP R 10K J 1/16W	
R23			RK73GB1J104J	CHIP R 100K J 1/16W	
R51			RK73GB1J473J	CHIP R 47K J 1/16W	
R57			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R58			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R67			RK73GB1J103J	CHIP R 10K J 1/16W	
R71			RK73FB2A823J	CHIP R 82K J 1/10W	
R72			RK73FB2A363J	CHIP R 36K J 1/10W	
R73			RK73GB1J104J	CHIP R 100K J 1/16W	
R103,104			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R105			RK73GB1J471J	CHIP R 470 J 1/16W	
R106			RK73GB1J104J	CHIP R 100K J 1/16W	
R107,108			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R110			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R113,114			RK73GB1J473J	CHIP R 47K J 1/16W	
R115			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R116			RK73GB1J103J	CHIP R 10K J 1/16W	
R117			RK73GB1J102J	CHIP R 1.0K J 1/16W	

Ref.No.	Add	New	Parts No.	Description	Destination
R118			RK73GB1J103J	CHIP R 10K J 1/16W	
R119			RK73GB1J473J	CHIP R 47K J 1/16W	
R121,122			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R125			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R126			RK73GB1J104J	CHIP R 100K J 1/16W	
R127			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R128			RK73GB1J225J	CHIP R 2.2M J 1/16W	
R129,130			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R131			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R132			RK73GB1J223J	CHIP R 22K J 1/16W	
R133			RK73GB1J164J	CHIP R 160K J 1/16W	
R136			RK73GB1J473J	CHIP R 47K J 1/16W	K
R136,137			RK73GB1J473J	CHIP R 47K J 1/16W	M1
R138,139			RK73GB1J473J	CHIP R 47K J 1/16W	K
R139			RK73GB1J473J	CHIP R 47K J 1/16W	M1
R143			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R144			RK73GB1J104J	CHIP R 100K J 1/16W	
R201			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R202,203			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R223,224			RK73FB2A271J	CHIP R 270 J 1/10W	
R251			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R254			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R255			RK73GB1J333J	CHIP R 33K J 1/16W	
R256			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R257			RK73GB1J362J	CHIP R 3.6K J 1/16W	
R258			RK73GB1J101J	CHIP R 100 J 1/16W	
R260			RK73GB1J751J	CHIP R 750 J 1/16W	
R261			RK73GB1J431J	CHIP R 430 J 1/16W	
R263			RK73GB1J184J	CHIP R 180K J 1/16W	
R264			RK73GB1J473J	CHIP R 47K J 1/16W	
R415			RK73GB1J104J	CHIP R 100K J 1/16W	
W151			R92-2053-05	CHIP R 0 J 1/8W	
W152			R92-1252-05	CHIP R 0 OHM	
W155			R92-1252-05	CHIP R 0 OHM	
W156,157			R92-2053-05	CHIP R 0 J 1/8W	
W158,159			R92-1252-05	CHIP R 0 OHM	
W160-165			R92-2053-05	CHIP R 0 J 1/8W	
W167-169			R92-1252-05	CHIP R 0 OHM	
D1			S2V20*A	DIODE	
D2			1SS133	DIODE	K
D2,3			1SS133	DIODE	M1
D4			IMSA-6801	SURGE ABSORBER	
D4			SA-C2012-101TB	SURGE ABSORBER	
D10			MA4068(N)-M	ZENER DIODE	
D11			D1F60	DIODE	M1
D12-14			AM01Z	DIODE	M1
D12-14			DSM1SD2	DIODE	M1
D12-14			ERA15-02	DIODE	M1
D13,14			AM01Z	DIODE	K
D13,14			DSM1SD2	DIODE	K
D13,14			ERA15-02	DIODE	K
D20			MA4068(N)-M	ZENER DIODE	
D40			1SS133	DIODE	
D50			1SS133	DIODE	

K: KDC-116S **M1:** KDC-1018

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PARTS LIST

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ELECTRIC UNIT(X25-8700-XX)
CD PLAYER UNIT(X32-5010-00)

Ref.No.	Add	New	Parts No.	Description	Destination
D51			HZS9A1L	ZENER DIODE	
D51			MA4082(N)-L	ZENER DIODE	
D70			MA4068(N)-M	ZENER DIODE	
D101			1SS133	DIODE	
D103,104			1SS133	DIODE	
D201,202			MA4068(N)-M	ZENER DIODE	
D251-253			1SS133	DIODE	
IC1			UPD780058GC233	MI-COM IC	
IC2			TDA7407D	ANALOGUE IC	
IC4			TDA7386	ANALOGUE IC	
IC7			BA4911-V4	ANALOGUE IC	
IC8			HD74HC27FP	MOS-IC	
IC11			S-80830ANNP	MOS-IC	
IC12			BR24C01AF	MEMORY IC	
IC12			BR24C01AF-W	MEMORY IC	
IC12			M24C01-WMN6T	MEMORY IC	
IC12			S-24C01B	MEMORY IC	
Q10			2SC4081	TRANSISTOR	
Q10			2SD1819A	TRANSISTOR	
Q20			2SC4081	TRANSISTOR	
Q20			2SD1819A	TRANSISTOR	
Q40			DTA124EUA	DIGITAL TRANSISTOR	
Q40			UN5112	DIGITAL TRANSISTOR	
Q50			2SA1036K	TRANSISTOR	
Q51			UMC2N	TRANSISTOR	
Q53			UMC2N	TRANSISTOR	
Q55			2SD2375	TRANSISTOR	
Q55			2SD2396	TRANSISTOR	
Q70			2SC4081	TRANSISTOR	
Q70			2SD1819A	TRANSISTOR	
Q223,224			DTC143TUA	DIGITAL TRANSISTOR	
Q223,224			UN5216	DIGITAL TRANSISTOR	
Q251			DTC114YUA	DIGITAL TRANSISTOR	
Q251			UN5214	DIGITAL TRANSISTOR	
TH1			PTH9C42BE471Q	POSITIVE RESISTOR	
A1	2D		X86-3300-10	TUNER UNIT	
CD PLAYER UNIT (X32-5010-00)					
C1,2			CK73FB1C105K	CHIP C 1.0UF K	
C3			CK73FB0J475K	CHIP C 4.7UF K	
C4			C92-0566-05	CHIP-TAN 10UF 6.3WV	
C5			CC73GCH1H330J	CHIP C 33PF J	
C6			CC73GCH1H030C	CHIP C 3.0PF C	
C7			CK73GB1C104K	CHIP C 0.10UF K	
C8			CK73FB1C105K	CHIP C 1.0UF K	
C10			CK73GB1H472K	CHIP C 4700PF K	
C11			CK73GB1H682K	CHIP C 6800PF K	
C12			CK73GB1H332K	CHIP C 3300PF K	
C13			CK73GB1C333K	CHIP C 0.033UF K	
C14			CK73GB1H472K	CHIP C 4700PF K	
C15			CK73GB1C473K	CHIP C 0.047UF K	
C16			CC73GCH1H221J	CHIP C 220PF J	
C17			CK73GB1H472K	CHIP C 4700PF K	
C18			CC73GCH1H471J	CHIP C 470PF J	
C19,20			CK73GB1C104K	CHIP C 0.10UF K	

Ref.No.	Add	New	Parts No.	Description	Destination
C21			CK73FB0J475K	CHIP C 4.7UF K	
C23			CK73GB1H102K	CHIP C 1000PF K	
C24			CK73GB1E223K	CHIP C 0.022UF K	
C25			CK73GB1H153K	CHIP C 0.015UF K	
C26			CK73GB0J105K	CHIP C 1.0UF K	
C28			CK73GB0J105K	CHIP C 1.0UF K	
C29			CK73GB1C104K	CHIP C 0.10UF K	
C33			CK73GB1C104K	CHIP C 0.10UF K	
C35			CK73GB1C104K	CHIP C 0.10UF K	
C41			CK73EB1C225K	CHIP C 2.2UF K	
C43			CK73GB1H153K	CHIP C 0.015UF K	
C45			CK73GB1H153K	CHIP C 0.015UF K	
C46			CK73GB1C473K	CHIP C 0.047UF K	
C55			CK73GB1C104K	CHIP C 0.10UF K	
C68			CK73GB1C104K	CHIP C 0.10UF K	
C71,72			CK73GB1H471K	CHIP C 470PF K	
C77,78			CC73GCH1H680J	CHIP C 68PF J	
C79,80			CK73GB1H222K	CHIP C 2200PF K	
C85			CK73GB1C104K	CHIP C 0.10UF K	
C89			CK73GB1H222K	CHIP C 2200PF K	
C90			CK73GB1C104K	CHIP C 0.10UF K	
CN1			E40-9536-05	FLAT CABLE CONNECTOR	
CN2			E40-9339-05	FLAT CABLE CONNECTOR	
CN2			E41-0036-05	FLAT CABLE CONNECTOR	
CN2			E41-0129-05	FLAT CABLE CONNECTOR	
X1			L78-0572-05	RESONATOR (16.93MHZ)	
CP1-3			R90-1019-05	MULTI-COMP 100 X 2	
R3			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R5			RK73GB1J151J	CHIP R 150 J 1/16W	
R6			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R8			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R9			RK73EB2B100J	CHIP R 10 J 1/8W	
R10,11			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R12			RK73GB1J432J	CHIP R 4.3K J 1/16W	
R15			RK73GB1J824J	CHIP R 820K J 1/16W	
R16			RK73GB1J223J	CHIP R 22K J 1/16W	
R17			RK73GB1J363J	CHIP R 36K J 1/16W	
R18			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R19			RK73GB1J333J	CHIP R 33K J 1/16W	
R20			RK73GB1J104J	CHIP R 100K J 1/16W	
R21			RK73GB1J334J	CHIP R 330K J 1/16W	
R32			RK73GB1J104J	CHIP R 100K J 1/16W	
R34			RK73GB1J683J	CHIP R 68K J 1/16W	
R36			RK73GB1J151J	CHIP R 150 J 1/16W	
R37			RK73GB1J471J	CHIP R 470 J 1/16W	
R38			RK73GB1J224J	CHIP R 220K J 1/16W	
R46			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R47			RK73GB1J103J	CHIP R 10K J 1/16W	
R49			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R52			RK73GB1J104J	CHIP R 100K J 1/16W	
R54			RK73GB1J104J	CHIP R 100K J 1/16W	
R71			RK73GB1J103J	CHIP R 10K J 1/16W	
R72			RK73GB1J102J	CHIP R 1.0K J 1/16W	

K: KDC-116S **M1:** KDC-1018

⚠ indicates safety critical components.

PARTS LIST

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Ref.No.	Add	New	Parts No.	Description			Destination
R73			RK73GB1J473J	CHIP R	47K	J 1/16W	
R75			RK73GB1J333J	CHIP R	33K	J 1/16W	
R76			RK73GB1J622J	CHIP R	6.2K	J 1/16W	
R77			RK73GB1J563J	CHIP R	56K	J 1/16W	
R78			RK73GB1J243J	CHIP R	24K	J 1/16W	
R81			RK73GB1J333J	CHIP R	33K	J 1/16W	
R82			RK73GB1J123J	CHIP R	12K	J 1/16W	
R83			RK73GB1J102J	CHIP R	1.0K	J 1/16W	
R102			RK73GB1J332J	CHIP R	3.3K	J 1/16W	
R104			RK73GB1J562J	CHIP R	5.6K	J 1/16W	
R107,108			RK73FB2A331J	CHIP R	330	J 1/10W	
R117,118			RK73FB2A203J	CHIP R	20K	J 1/10W	
R121,122			RK73FB2A203J	CHIP R	20K	J 1/10W	
R125,126			RK73FB2A203J	CHIP R	20K	J 1/10W	
R202			RK73GB1J104J	CHIP R	100K	J 1/16W	
R214			RK73GB1J104J	CHIP R	100K	J 1/16W	
R218			RK73GB1J473J	CHIP R	47K	J 1/16W	
R233			RK73GB1J622J	CHIP R	6.2K	J 1/16W	
R234			RK73GB1J103J	CHIP R	10K	J 1/16W	
R238			RK73FB2A201J	CHIP R	200	J 1/10W	
W17			R92-2053-05	CHIP R	0	J 1/8W	
S1,2			S68-0838-05	PUSH SWITCH			
S3			S68-0859-05	PUSH SWITCH			
D1,2			DAN202U	DIODE			
D3			DA204U	DIODE			
D4			DAN202U	DIODE			
D5			MA8051-L	ZENER DIODE			
IC1			AN22000AA	ANALOGUE IC			
IC2			MN662774KG1	MOS-IC			
IC4			BA5917AFP	ANALOGUE IC			
IC6			NJM4565MD	IC(OP AMP X2)			
Q1			MCH6101	TRANSISTOR			
Q2			DTC124EUA	DIGITAL TRANSISTOR			
Q3			DTA143XUA	DIGITAL TRANSISTOR			
Q4			2SA1362(Y)	TRANSISTOR			
Q5			DTC124EUA	DIGITAL TRANSISTOR			
MECHANISM ASSY (X92-4130-00)							
1	2A		A10-4482-01	CHASSIS			
2	1B		A10-4225-33	CHASSIS CALKING ASSY			
3	2B		A11-0915-43	SUB CHASSIS CALKING ASSY			
6	2A		D10-4306-04	ARM ASSY			
7	2A		D10-4305-04	ARM ASSY			
8	3A		D10-3087-44	ARM ASSY			
9	3B		D10-3092-03	SLIDER			
10	3B		D10-3093-04	SLIDER ASSY			
11	2B		D10-3095-04	SLIDER ASSY			
12	2B		D10-3096-04	SLIDER ASSY			
13	1A		D10-3099-24	SLIDER ASSY			
14	1A		D10-3100-04	SLIDER ASSY			
16	1B		D10-4004-04	LEVER ASSY			
17	1B		D10-4006-04	LEVER			
18	1A		D10-4007-04	LEVER			
19	2B		D10-4008-14	LEVER			

CD PLAYER UNIT(X32-5010-00)
MECHANISM ASSY(X92-4130-00)

Ref.No.	Add	New	Parts No.	Description	Destination
20	2A		D10-4009-23	ARM	
21	3A		D10-4010-04	LEVER	
22	3A		D10-4307-04	LEVER ASSY	
24	3B		D10-4050-04	ARM	
25	3A		D10-4038-23	ARM ASSY	
26	2A		D10-4123-24	LEVER ASSY	
27	3A		D13-1442-03	RACK (GEAR)	
29	3B		D13-1231-04	GEAR	
30	3A		D13-1240-04	GEAR	
31	3B		D13-1233-04	GEAR	
32	3B		D13-1234-14	GEAR ASSY	
33	3A		D13-1441-03	GEAR	
34	3B		D13-1232-04	GEAR	
35	3B		D13-1241-04	GEAR	
36	3A		D13-1242-04	GEAR	
37	1B		D13-1243-04	GEAR	
38	1B		D13-1244-04	GEAR	
39	1B		D13-1245-14	GEAR	
40	2A		D13-1246-04	GEAR	
41	2B		D13-1247-04	GEAR	
43	2B		D13-1249-04	GEAR ASSY	
44	2B		D13-1341-04	GEAR ASSY (LEAD SCREW)	
45	1B		D14-0668-04	ROLLER	
46	2A		D14-0670-04	ROLLER	
47	3B		D14-0674-04	ROLLER	
49	3A		D21-2228-14	SHAFT	
50	1A		D21-2229-04	SHAFT	
51	1A		D23-0925-24	RETAINER	
52	2A		D32-0614-04	STOPPER	
53	1B		D39-0223-05	DAMPER (YELLOW)	
54	2B		D39-0224-05	DAMPER (BLACK)	
55	3B		F09-1246-04	SHEET	
58	3B		F09-1266-14	SHEET	
60	2A		G01-2770-04	EXTENSION SPRING	
61	3A		G01-2771-04	EXTENSION SPRING	
62	3A		G01-2772-24	EXTENSION SPRING	
63	3A		G01-2773-14	EXTENSION SPRING	
64	3A		G01-2774-34	EXTENSION SPRING	
65	1B		G01-2775-04	TORSION COIL SPRING	
66	1B		G01-2776-14	TORSION COIL SPRING	
67	3B		G01-2777-24	TORSION COIL SPRING	
69	2A		G01-2844-04	EXTENSION SPRING	
70	2A		G02-1231-04	FLAT SPRING	
71	2B		G02-1232-24	FLAT SPRING	
72	2A		G02-1241-24	FLAT SPRING	
75	2A		J11-0613-13	CLAMPER	
76	3A		J19-4678-13	HOLDER	
77	2B		J19-4679-24	HOLDER	
78	3B		J21-7684-13	MOUNTING HARDWARE	
79	2B		J21-7686-13	MOUNTING HARDWARE	
80	1B		J21-7690-03	MOUNTING HARDWARE	
82	3A	∗	J84-0107-05	FLEXIBLE PRINTED WIRING BOARD	
83	1A		J90-0757-22	GUIDE	

K: KDC-116S **M1:** KDC-1018

⚠ indicates safety critical components.

PARTS LIST

∗ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohane Parts No. werden nicht geliefert.

MECHANISM ASSY(X92-4130-00)

Ref.No.	Add	New	Parts No.	Description	Destination
A	2A		N09-4249-05	MACHINE SCREW (M1.7X2.5,LOCK)	
B	1B		N09-4172-05	TAPPING SCREW (2X3.5,CTITE)	
C	2B		N09-4202-05	STEPPED SCREW	
D	2A		N38-2020-46	PAN HEAD MACHIN SCREW	
E	3A		N09-4294-05	TAPTITE SCREW (BIND P TAPTIT)	
F	3B		N19-2023-04	FLAT WASHER	
G	2A		N19-2058-04	FLAT WASHER	
H	3A		N19-2093-04	FLAT WASHER	
J	2A		N39-2020-46	PAN HEAD MACHIN SCREW	
DM1	3B		T42-0764-04	DC MOTOR ASSY	
DM2	3B		T42-0763-04	DC MOTOR ASSY	
DPU1	2B	∗	T25-0215-05	OPTICAL PICKUP HEAD	

Ref.No.	Add	New	Parts No.	Description	Destination

K: KDC-116S **M1:** KDC-1018

⚠ indicates safety critical components.

KDC-116S/1018

SPECIFICATIONS

KDC-116S

FM Section

Frequency Range	87.9MHz~107.9MHz
(Frequency Step)	(200kHz)
Channel Space Selection	50k/200kHz
Usable Sensitivity(S/N:30dB)	9.3dBf (0.8μV/75Ω)
Quieting Sensitivity(S/N:50dB)	15.2dBf (1.6μV/75Ω)
Frequency Response(±3.0dB)	30Hz~15kHz
S/N	70dB (MONO)
Selectivity	≥ 80dB(±400kHz)
Stereo Separation	40dB(1kHz)

AM Section

Frequency Range	530kHz~1700kHz
(Frequency Step)	(10kHz)
Channel Space Selection	9k/10kHz
Usable Sensitivity(S/N:20dB)	28dB μ (25μV)

CD Section

Laser Diode	GaAlAs(λ=780nm)
Digital Filter(D/A)	8 Times Over Sampling
D/A Converter	1Bit
Spindle Speed	500~200(CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response	10~20kHz(±1dB)
THD	0.01%(1kHz)
S/N Ratio	96dB(1kHz)
Dynamic Range	93dB
Channel Separation	85dB

AMPLIFIER Section

Preout Level/Load	1800mV/10kΩ(CD)
Preout Impedance	≤ 600Ω
Maximum Power	45W×4
Full Bandwidth Power (at less than 1%THD)	22W×4

TONE Section

Bass	100Hz±10dB
Middle	1kHz±10dB
Treble	10kHz±10dB

General

Operating Voltage (11V~16V allowable)	14.4V
Current Consumption	10A
Installation Size (W)	182(mm) 7-3/16(in)
(H)	53(mm) 2-1/16(in)
(D)	157(mm) 6-3/16(in)
Weight	1.5kg(3.31lbs)

KDC-1018

FM Section

Frequency Range	87.5MHz~108.0MHz
(Frequency Step)	(50kHz)
Channel Space Selection	50k/200kHz
Usable Sensitivity(S/N:30dB)	9.3dBf (0.8μV/75Ω)
Quieting Sensitivity(S/N:50dB)	15.2dBf (1.6μV/75Ω)
Frequency Response(±3.0dB)	30Hz~15kHz
S/N	70dB (MONO)
Selectivity	≥ 80dB(±400kHz)
Stereo Separation	40dB(1kHz)

AM Section

Frequency Range	531kHz~1611kHz
(Frequency Step)	(9kHz)
Channel Space Selection	9k/10kHz
Usable Sensitivity(S/N:20dB)	28dB μ (25μV)

CD Section

Laser Diode	GaAlAs(λ=780nm)
Digital Filter(D/A)	8 Times Over Sampling
D/A Converter	1Bit
Spindle Speed	500~200(CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response	10~20kHz(±1dB)
THD	0.01%(1kHz)
S/N Ratio	96dB(1kHz)
Dynamic Range	93dB
Channel Separation	85dB

AMPLIFIER Section

Preout Level/Load	1800mV/10kΩ(CD)
Preout Impedance	≤ 600Ω
Maximum Power	45W×4
Full Bandwidth Power (at less than 1%THD)	22W×4

TONE Section

Bass	100Hz±10dB
Middle	1kHz±10dB
Treble	10kHz±10dB

General

Operating Voltage (11V~16V allowable)	14.4V
Current Consumption	10A
Installation Size (W)	182(mm) 7-3/16(in)
(H)	53(mm) 2-1/16(in)
(D)	157(mm) 6-3/16(in)
Weight	1.5kg(3.31lbs)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.